



April 10, 2024

Randy Evans
Wellington Operating Company
1590 East County Road 70
Wellington, CO 80549

RE: Project: Gault-Piatt Well 20-3 Table 91
Pace Project No.: 10687564

Dear Randy Evans:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Yeng Ozawa".

Yeng Ozawa
yeng.ozawa@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW
Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

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CERTIFICATIONS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Pace Analytical Services National

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE ANALYTE COUNT

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10687564001	Well 20-3 Background @ 1'	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D Modified w/ SG	TT2	5	PASI-M
		EPA 8015D	TM2	2	PASI-M
		EPA 6010D	IP	9	PASI-M
		WREP 125, S-7.10	IP	1	PASI-M
		WREP 125 S-1.6	IP	4	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	GY1	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7196A	TQP	1	PAN
		WREP 125 S-1.20	MER	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10687564002	Well 20-3 Background @ 8'	EPA 8015D Modified	TT2	4	PASI-M
		EPA 8015D Modified w/ SG	TT2	5	PASI-M
		EPA 8015D	TM2	2	PASI-M
		EPA 6010D	IP	9	PASI-M
		WREP 125, S-7.10	IP	1	PASI-M
		WREP 125 S-1.6	IP	4	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	GY1	17	PASI-M
		EPA 8260D	SB2	9	PASI-M
		EPA 7196A	TQP	1	PAN
		WREP 125 S-1.20	MER	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 1' Lab ID: 10687564001 Collected: 03/25/24 11:45 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel Microwave								
Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave								
Pace Analytical Services - Minneapolis								
Motor Oil Range (C24-C36)	38.9	mg/kg	10.9	1	03/27/24 17:02	03/28/24 12:32		N2
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	03/27/24 17:02	03/28/24 12:32		
Surrogates								
o-Terphenyl (S)	79	%.	30-150	1	03/27/24 17:02	03/28/24 12:32	84-15-1	
n-Triacontane (S)	60	%.	30-150	1	03/27/24 17:02	03/28/24 12:32		
8015DGCS THC-Diesel Silica Gel								
Analytical Method: EPA 8015D Modified w/ SG Preparation Method: EPA 3546 Microwave								
Pace Analytical Services - Minneapolis								
C10-C36	22.5	mg/kg	10.9	1	03/27/24 17:02	04/04/24 08:40		N2
Motor Oil Range (C24-C36)	25.6	mg/kg	10.9	1	03/27/24 17:02	04/04/24 08:40		N2
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	03/27/24 17:02	04/04/24 08:40		
Surrogates								
o-Terphenyl (S)	63	%.	45-125	1	03/27/24 17:02	04/04/24 08:40	84-15-1	
n-Triacontane (S)	46	%.	37-125	1	03/27/24 17:02	04/04/24 08:40		
8015D GCV GRO								
Analytical Method: EPA 8015D Preparation Method: EPA 5030								
Pace Analytical Services - Minneapolis								
Gasoline Range Organics	ND	mg/kg	2.9	1	03/28/24 14:49	03/28/24 19:20		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	71-135	1	03/28/24 14:49	03/28/24 19:20	98-08-8	
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	4.6	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:25	7440-38-2	
Barium	161	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:25	7440-39-3	
Cadmium	0.80	mg/kg	0.15	1	03/28/24 07:27	03/28/24 12:25	7440-43-9	
Copper	17.0	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:25	7440-50-8	
Lead	22.9	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:25	7439-92-1	
Nickel	13.1	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:25	7440-02-0	
Selenium	ND	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:25	7782-49-2	
Silver	ND	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:25	7440-22-4	
Zinc	67.2	mg/kg	2.0	1	03/28/24 07:27	03/28/24 12:25	7440-66-6	
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	0.55	mg/kg	0.30	1	04/01/24 11:14	04/02/24 11:42	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	31.9	meq/L	0.25	10		04/02/24 12:37	7440-70-2	N2
Magnesium saturated paste	8.3	meq/L	0.41	10		04/02/24 12:37	7439-95-4	N2
Sodium Adsorption Ratio	0.62			10		04/02/24 12:37		N2
Sodium saturated paste	2.8	meq/L	0.44	10		04/02/24 12:37	7440-23-5	N2

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 1' Lab ID: 10687564001 Collected: 03/25/24 11:45 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	8.2	%	0.10	1		03/28/24 10:23		N2
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	83-32-9	
Anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	207-08-9	
Chrysene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	53-70-3	
Fluoranthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	206-44-0	
Fluorene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	193-39-5	
1-Methylnaphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	90-12-0	
2-Methylnaphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	91-57-6	
Naphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	91-20-3	
Pyrene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 13:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%.	48-125	1	03/28/24 11:56	03/29/24 13:59	321-60-8	
p-Terphenyl-d14 (S)	78	%.	51-139	1	03/28/24 11:56	03/29/24 13:59	1718-51-0	
8260D MSV UST								
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B								
Pace Analytical Services - Minneapolis								
Benzene	ND	ug/kg	10.5	1	03/29/24 13:02	03/29/24 21:13	71-43-2	
Ethylbenzene	ND	ug/kg	26.2	1	03/29/24 13:02	03/29/24 21:13	100-41-4	
Toluene	ND	ug/kg	26.2	1	03/29/24 13:02	03/29/24 21:13	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	26.2	1	03/29/24 13:02	03/29/24 21:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	26.2	1	03/29/24 13:02	03/29/24 21:13	108-67-8	
Xylene (Total)	ND	ug/kg	78.5	1	03/29/24 13:02	03/29/24 21:13	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%.	75-125	1	03/29/24 13:02	03/29/24 21:13	460-00-4	
Toluene-d8 (S)	102	%.	75-125	1	03/29/24 13:02	03/29/24 21:13	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1	03/29/24 13:02	03/29/24 21:13	2199-69-1	
Wet Chemistry 3060A/7196A								
Analytical Method: EPA 7196A Preparation Method: 3060A								
Pace National - Mt. Juliet								
Chromium, Hexavalent	ND	mg/kg	2.00	1	04/02/24 09:41	04/02/24 21:50		
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	3100	umhos/cm	5.0	1		04/02/24 12:09		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 1' Lab ID: 10687564001 Collected: 03/25/24 11:45 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Saturated Paste pH		Analytical Method: WREP 125 S-1.10 Pace Analytical Services - Minneapolis						
pH at 25 Degrees C	7.09	Std. Units	0.100	1		04/02/24 08:59		N2

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 8' Lab ID: 10687564002 Collected: 03/25/24 12:00 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015D GCS THC-Diesel Microwave								
Analytical Method: EPA 8015D Modified Preparation Method: EPA 3546 Microwave								
Pace Analytical Services - Minneapolis								
Motor Oil Range (C24-C36)	12.4	mg/kg	10.8	1	03/27/24 17:02	03/28/24 12:43		N2
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	03/27/24 17:02	03/28/24 12:43		
Surrogates								
o-Terphenyl (S)	81	%.	30-150	1	03/27/24 17:02	03/28/24 12:43	84-15-1	
n-Triacontane (S)	50	%.	30-150	1	03/27/24 17:02	03/28/24 12:43		
8015DGCS THC-Diesel Silica Gel								
Analytical Method: EPA 8015D Modified w/ SG Preparation Method: EPA 3546 Microwave								
Pace Analytical Services - Minneapolis								
C10-C36	ND	mg/kg	10.8	1	03/27/24 17:02	04/04/24 08:51		N2
Motor Oil Range (C24-C36)	ND	mg/kg	10.8	1	03/27/24 17:02	04/04/24 08:51		N2
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	03/27/24 17:02	04/04/24 08:51		
Surrogates								
o-Terphenyl (S)	69	%.	45-125	1	03/27/24 17:02	04/04/24 08:51	84-15-1	
n-Triacontane (S)	41	%.	37-125	1	03/27/24 17:02	04/04/24 08:51		
8015D GCV GRO								
Analytical Method: EPA 8015D Preparation Method: EPA 5030								
Pace Analytical Services - Minneapolis								
Gasoline Range Organics	ND	mg/kg	2.2	1	03/28/24 14:49	03/28/24 19:37		
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%.	71-135	1	03/28/24 14:49	03/28/24 19:37	98-08-8	
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	2.8	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:27	7440-38-2	
Barium	71.7	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:27	7440-39-3	
Cadmium	0.28	mg/kg	0.15	1	03/28/24 07:27	03/28/24 12:27	7440-43-9	
Copper	6.2	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:27	7440-50-8	
Lead	5.6	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:27	7439-92-1	
Nickel	6.5	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:27	7440-02-0	
Selenium	ND	mg/kg	1.0	1	03/28/24 07:27	03/28/24 12:27	7782-49-2	
Silver	ND	mg/kg	0.51	1	03/28/24 07:27	03/28/24 12:27	7440-22-4	
Zinc	27.1	mg/kg	2.1	1	03/28/24 07:27	03/28/24 12:27	7440-66-6	
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	0.40	mg/kg	0.30	1	04/01/24 11:14	04/02/24 11:52	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	15.8	meq/L	0.25	10		04/02/24 12:39	7440-70-2	N2
Magnesium saturated paste	5.6	meq/L	0.41	10		04/02/24 12:39	7439-95-4	N2
Sodium Adsorption Ratio	0.47			10		04/02/24 12:39		N2
Sodium saturated paste	1.5	meq/L	0.44	10		04/02/24 12:39	7440-23-5	N2

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 8' Lab ID: 10687564002 Collected: 03/25/24 12:00 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	8.8	%	0.10	1		03/28/24 10:23		N2
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	83-32-9	
Anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	207-08-9	
Chrysene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	53-70-3	
Fluoranthene	20.1	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	206-44-0	
Fluorene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	193-39-5	
1-Methylnaphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	90-12-0	
2-Methylnaphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	91-57-6	
Naphthalene	ND	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	91-20-3	
Pyrene	16.5	ug/kg	10.8	1	03/28/24 11:56	03/29/24 15:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%.	48-125	1	03/28/24 11:56	03/29/24 15:05	321-60-8	
p-Terphenyl-d14 (S)	72	%.	51-139	1	03/28/24 11:56	03/29/24 15:05	1718-51-0	
8260D MSV UST								
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B								
Pace Analytical Services - Minneapolis								
Benzene	ND	ug/kg	8.4	1	03/29/24 13:02	03/29/24 21:28	71-43-2	
Ethylbenzene	ND	ug/kg	21.0	1	03/29/24 13:02	03/29/24 21:28	100-41-4	
Toluene	ND	ug/kg	21.0	1	03/29/24 13:02	03/29/24 21:28	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/kg	21.0	1	03/29/24 13:02	03/29/24 21:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	21.0	1	03/29/24 13:02	03/29/24 21:28	108-67-8	
Xylene (Total)	ND	ug/kg	63.0	1	03/29/24 13:02	03/29/24 21:28	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%.	75-125	1	03/29/24 13:02	03/29/24 21:28	460-00-4	
Toluene-d8 (S)	99	%.	75-125	1	03/29/24 13:02	03/29/24 21:28	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1	03/29/24 13:02	03/29/24 21:28	2199-69-1	
Wet Chemistry 3060A/7196A								
Analytical Method: EPA 7196A Preparation Method: 3060A								
Pace National - Mt. Juliet								
Chromium, Hexavalent	ND	mg/kg	2.00	1	04/02/24 09:41	04/02/24 21:53		
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	1580	umhos/cm	5.0	1		04/02/24 12:11		N2

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ANALYTICAL RESULTS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Sample: Well 20-3 Background @ 8' Lab ID: 10687564002 Collected: 03/25/24 12:00 Received: 03/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Saturated Paste pH		Analytical Method: WREP 125 S-1.10 Pace Analytical Services - Minneapolis						
pH at 25 Degrees C	7.43	Std. Units	0.100	1		04/02/24 09:04		N2

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938382

Analysis Method: EPA 8015D

QC Batch Method: EPA 5030

Analysis Description: 8015D GCV GRO Solid

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4914801

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.0	03/28/24 16:52	
a,a,a-Trifluorotoluene (S)	%.	98	71-135	03/28/24 16:52	

LABORATORY CONTROL SAMPLE: 4914802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	45.1	90	74-125	
a,a,a-Trifluorotoluene (S)	%.			105	71-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4914803 4914804

Parameter	Units	10687665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	57.6	57.6	52.8	52.3	90	89	42-132	1	
a,a,a-Trifluorotoluene (S)	%.						99	101	71-135		

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 939256

Analysis Method: WREP 125 S-1.6

QC Batch Method: WREP 125 S-1.6

Analysis Description: Saturated Paste SAR

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4918526

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium saturated paste	meq/L	ND	0.025	04/02/24 12:31	N2
Magnesium saturated paste	meq/L	ND	0.041	04/02/24 12:31	N2
Sodium Adsorption Ratio		0.041		04/02/24 12:31	N2
Sodium saturated paste	meq/L	ND	0.044	04/02/24 12:31	N2

LABORATORY CONTROL SAMPLE & LCSD: 4918527

4918675

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium saturated paste	meq/L	1	0.90	0.89	90	89	80-120	1	20	N2
Magnesium saturated paste	meq/L	1.6	1.5	1.5	91	90	80-120	1	20	N2
Sodium Adsorption Ratio			0.72	0.72				1	20	N2
Sodium saturated paste	meq/L	0.87	0.79	0.78	91	90	80-120	1	20	N2

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch:	938237	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4914185 Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	03/28/24 12:09	
Barium	mg/kg	ND	0.48	03/28/24 12:09	
Cadmium	mg/kg	ND	0.14	03/28/24 12:09	
Copper	mg/kg	ND	0.48	03/28/24 12:09	
Lead	mg/kg	ND	0.48	03/28/24 12:09	
Nickel	mg/kg	ND	0.96	03/28/24 12:09	
Selenium	mg/kg	ND	0.96	03/28/24 12:09	
Silver	mg/kg	ND	0.48	03/28/24 12:09	
Zinc	mg/kg	ND	1.9	03/28/24 12:09	

LABORATORY CONTROL SAMPLE: 4914186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.1	45.9	96	80-120	
Barium	mg/kg	48.1	49.3	103	80-120	
Cadmium	mg/kg	48.1	49.1	102	80-120	
Copper	mg/kg	48.1	48.2	100	80-120	
Lead	mg/kg	48.1	48.5	101	80-120	
Nickel	mg/kg	48.1	48.2	100	80-120	
Selenium	mg/kg	48.1	45.2	94	80-120	
Silver	mg/kg	24	23.5	98	80-120	
Zinc	mg/kg	48.1	47.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4914187 4914188

Parameter	10687046004		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
Arsenic	mg/kg	2.3	53.6	53	55.4	61.0	99	111	75-125	10	
Barium	mg/kg	39.8	53.6	53	95.6	101	104	116	75-125	6	
Cadmium	mg/kg	ND	53.6	53	49.6	48.3	92	91	75-125	3	
Copper	mg/kg	2.8	53.6	53	55.3	54.1	98	97	75-125	2	
Lead	mg/kg	3.6	53.6	53	54.3	52.8	95	93	75-125	3	
Nickel	mg/kg	10.1	53.6	53	59.5	59.4	92	93	75-125	0	
Selenium	mg/kg	ND	53.6	53	46.4	45.5	87	86	75-125	2	
Silver	mg/kg	ND	26.8	26.5	25.0	24.3	93	92	75-125	3	
Zinc	mg/kg	15.7	53.6	53	64.3	63.5	91	90	75-125	1	

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938730

Analysis Method: WREP 125, S-7.10

QC Batch Method: N/A

Analysis Description: Hot Water Soluble Boron

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4916413

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/kg	ND	0.30	04/02/24 11:38	N2

LABORATORY CONTROL SAMPLE: 4916414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/kg	2	2.0	101		N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4916415 4916416

Parameter	Units	10687564001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Boron	mg/kg	0.55	2	2	1.9	1.8	69	63		7	N2

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91
Pace Project No.: 10687564

QC Batch:	938253	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10687564001, 10687564002			

SAMPLE DUPLICATE: 4914236

Parameter	Units	10687046004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.4	9.4	0	N2

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938542

Analysis Method: EPA 8260D

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260D MSV UST

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4915529

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	03/29/24 20:42	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	03/29/24 20:42	
Benzene	ug/kg	ND	20.0	03/29/24 20:42	
Ethylbenzene	ug/kg	ND	50.0	03/29/24 20:42	
Toluene	ug/kg	ND	50.0	03/29/24 20:42	
Xylene (Total)	ug/kg	ND	150	03/29/24 20:42	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125	03/29/24 20:42	
4-Bromofluorobenzene (S)	%.	104	75-125	03/29/24 20:42	
Toluene-d8 (S)	%.	98	75-125	03/29/24 20:42	

LABORATORY CONTROL SAMPLE & LCSD: 4915530

4915531

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	956	1130	96	113	66-129	17	20	
1,3,5-Trimethylbenzene	ug/kg	1000	984	1110	98	111	66-129	12	20	
Benzene	ug/kg	1000	1090	1090	109	109	75-125	0	20	
Ethylbenzene	ug/kg	1000	1120	1080	112	108	70-125	4	20	
Toluene	ug/kg	1000	1080	1080	108	108	72-125	0	20	
Xylene (Total)	ug/kg	3000	3350	3120	112	104	70-125	7	20	
1,2-Dichlorobenzene-d4 (S)	%.				97	103	75-125			
4-Bromofluorobenzene (S)	%.				106	100	75-125			
Toluene-d8 (S)	%.				96	98	75-125			

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch:	938189	Analysis Method:	EPA 8015D Modified
QC Batch Method:	EPA 3546 Microwave	Analysis Description:	8015D Solid GCSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4913955 Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	ND	10.0	03/28/24 11:27	N2
TPH-DRO (C10-C28)	mg/kg	ND	10.0	03/28/24 11:27	
n-Triacontane (S)	%	92	30-150	03/28/24 11:27	
o-Terphenyl (S)	%	91	30-150	03/28/24 11:27	

LABORATORY CONTROL SAMPLE: 4913956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Motor Oil Range (C24-C36)	mg/kg	50	49.8	100	73-125	N2
TPH-DRO (C10-C28)	mg/kg	50	49.4	99	66-125	
n-Triacontane (S)	%			95	30-150	
o-Terphenyl (S)	%			91	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4913957 4913958

Parameter	Units	10687557001		MS		MSD		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	% Rec	Result	% Rec	Result	% Rec	Result	% Rec	Limits	Limits		
Motor Oil Range (C24-C36)	mg/kg	1790	48.1	50	1540	1880	-509	187	30-150	20	N2,P6								
TPH-DRO (C10-C28)	mg/kg	1050	48.1	50	984	1180	-143	251	30-150	18	P6								
n-Triacontane (S)	%						0	0	30-150		S4								
o-Terphenyl (S)	%						0	0	30-150		S4								

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch:	939002	Analysis Method:	EPA 8015D Modified w/ SG
QC Batch Method:	EPA 3546 Microwave	Analysis Description:	8015D Solid GCSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4917435

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
C10-C36	mg/kg	ND	10.0	04/04/24 08:18	N2
Motor Oil Range (C24-C36)	mg/kg	ND	10.0	04/04/24 08:18	N2
TPH-DRO (C10-C28)	mg/kg	ND	10.0	04/04/24 08:18	
n-Triacontane (S)	%.	72	37-125	04/04/24 08:18	
o-Terphenyl (S)	%.	77	45-125	04/04/24 08:18	

LABORATORY CONTROL SAMPLE: 4917436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
C10-C36	mg/kg	100	79.7	80	70-130	N2
Motor Oil Range (C24-C36)	mg/kg	50	39.8	80	70-130	N2
TPH-DRO (C10-C28)	mg/kg	50	40.6	81	70-130	
n-Triacontane (S)	%.			77	37-125	
o-Terphenyl (S)	%.			75	45-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4917437 4917438

Parameter	10687999001		MS	MSD	4917437		MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	% Rec	% Rec	Limits		
C10-C36	mg/kg	1690	96.2	100	1460	1670	-248	-19	70-130	14	N2,P6		
Motor Oil Range (C24-C36)	mg/kg	1440	48.1	50	1170	1370	-557	-135	70-130	16	N2,P6		
TPH-DRO (C10-C28)	mg/kg	855	48.1	50	758	871	-202	32	30-150	14	P6		
n-Triacontane (S)	%.						0	0	37-125		S4		
o-Terphenyl (S)	%.						0	0	45-125		S4		

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938313

Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270E Solid PAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4914424

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	10.0	03/29/24 12:31	
2-Methylnaphthalene	ug/kg	ND	10.0	03/29/24 12:31	
Acenaphthene	ug/kg	ND	10.0	03/29/24 12:31	
Anthracene	ug/kg	ND	10.0	03/29/24 12:31	
Benzo(a)anthracene	ug/kg	ND	10.0	03/29/24 12:31	
Benzo(a)pyrene	ug/kg	ND	10.0	03/29/24 12:31	
Benzo(b)fluoranthene	ug/kg	ND	10.0	03/29/24 12:31	
Benzo(k)fluoranthene	ug/kg	ND	10.0	03/29/24 12:31	
Chrysene	ug/kg	ND	10.0	03/29/24 12:31	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	03/29/24 12:31	
Fluoranthene	ug/kg	ND	10.0	03/29/24 12:31	
Fluorene	ug/kg	ND	10.0	03/29/24 12:31	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	03/29/24 12:31	
Naphthalene	ug/kg	ND	10.0	03/29/24 12:31	
Pyrene	ug/kg	ND	10.0	03/29/24 12:31	
2-Fluorobiphenyl (S)	%.	74	48-125	03/29/24 12:31	
p-Terphenyl-d14 (S)	%.	78	51-139	03/29/24 12:31	

LABORATORY CONTROL SAMPLE: 4914425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	100	75.8	76	36-125	
2-Methylnaphthalene	ug/kg	100	74.4	74	33-125	
Acenaphthene	ug/kg	100	77.1	77	45-125	
Anthracene	ug/kg	100	78.2	78	59-125	
Benzo(a)anthracene	ug/kg	100	82.2	82	66-125	
Benzo(a)pyrene	ug/kg	100	80.1	80	65-125	
Benzo(b)fluoranthene	ug/kg	100	81.1	81	61-125	
Benzo(k)fluoranthene	ug/kg	100	80.0	80	65-125	
Chrysene	ug/kg	100	80.5	80	63-125	
Dibenz(a,h)anthracene	ug/kg	100	81.9	82	63-125	
Fluoranthene	ug/kg	100	78.2	78	62-125	
Fluorene	ug/kg	100	75.0	75	51-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	78.1	78	61-125	
Naphthalene	ug/kg	100	71.7	72	37-125	
Pyrene	ug/kg	100	76.7	77	65-125	
2-Fluorobiphenyl (S)	%.			80	48-125	
p-Terphenyl-d14 (S)	%.			76	51-139	

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4914427 4914428											
Parameter	Units	10687564001		MS	MSD	MS		MSD	% Rec		Qual
		Result	Conc.	Spike	Spike	Result	Result	Result	% Rec	Limits	
1-Methylnaphthalene	ug/kg	ND	106	106	107	78.8	74.7	74	70	30-125	5
2-Methylnaphthalene	ug/kg	ND	106	106	107	83.1	75.6	78	70	30-125	9
Acenaphthene	ug/kg	ND	106	106	107	84.1	78.6	79	73	30-131	7
Anthracene	ug/kg	ND	106	106	107	84.8	82.1	80	76	35-131	3
Benzo(a)anthracene	ug/kg	ND	106	106	107	86.0	86.5	81	81	30-150	1
Benzo(a)pyrene	ug/kg	ND	106	106	107	85.2	84.6	80	79	30-148	1
Benzo(b)fluoranthene	ug/kg	ND	106	106	107	90.0	85.6	85	80	30-150	5
Benzo(k)fluoranthene	ug/kg	ND	106	106	107	86.2	82.6	81	77	30-150	4
Chrysene	ug/kg	ND	106	106	107	85.5	84.3	81	78	30-150	1
Dibenz(a,h)anthracene	ug/kg	ND	106	106	107	84.2	85.5	79	80	50-125	2
Fluoranthene	ug/kg	ND	106	106	107	90.5	85.8	85	80	30-150	5
Fluorene	ug/kg	ND	106	106	107	82.8	79.4	78	74	35-128	4
Indeno(1,2,3-cd)pyrene	ug/kg	ND	106	106	107	83.3	83.1	78	77	30-150	0
Naphthalene	ug/kg	ND	106	106	107	73.5	69.0	69	64	30-125	6
Pyrene	ug/kg	ND	106	106	107	83.1	78.8	78	73	30-150	5
2-Fluorobiphenyl (S)	%.							78	69	48-125	
p-Terphenyl-d14 (S)	%.							77	69	51-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 2258453

Analysis Method: EPA 7196A

QC Batch Method: 3060A

Analysis Description: Wet Chemistry 3060A/7196A

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: R4052967-1

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	2.00	04/02/24 21:46	

LABORATORY CONTROL SAMPLE: R4052967-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	24.0	24.5	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4052967-7 R4052967-4

Parameter	Units	10687564002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	ND	20.0	20.0	15.3	15.6	76.7	78.2	75.0-125	1.95	

MATRIX SPIKE SAMPLE: R4052967-5

Parameter	Units	10687564002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	648	767	118	75.0-125	

SAMPLE DUPLICATE: R4052967-3

Parameter	Units	10687564001 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938882

Analysis Method: WREP 125 S-1.20

QC Batch Method: WREP 125 S-1.20

Analysis Description: Electrical Conductivity Paste

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

METHOD BLANK: 4916921

Matrix: Solid

Associated Lab Samples: 10687564001, 10687564002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	04/02/24 12:07	N2

LABORATORY CONTROL SAMPLE: 4916922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	972	97	90-110	N2

SAMPLE DUPLICATE: 4916923

Parameter	Units	10687564001 Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	3100	3090	0	N2

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QUALITY CONTROL DATA

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

QC Batch: 938885

Analysis Method: WREP 125 S-1.10

QC Batch Method: WREP 125 S-1.10

Analysis Description: Saturated Paste pH

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10687564001, 10687564002

SAMPLE DUPLICATE: 4916924

Parameter	Units	10687564001 Result	Dup Result	RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.09	7.16	0.982	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 938747

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Gault-Piatt Well 20-3 Table 91

Pace Project No.: 10687564

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10687564001	Well 20-3 Background @ 1'	EPA 3546 Microwave	938189	EPA 8015D Modified	938297
10687564002	Well 20-3 Background @ 8'	EPA 3546 Microwave	938189	EPA 8015D Modified	938297
10687564001	Well 20-3 Background @ 1'	EPA 3546 Microwave	939002	EPA 8015D Modified w/ SG	939298
10687564002	Well 20-3 Background @ 8'	EPA 3546 Microwave	939002	EPA 8015D Modified w/ SG	939298
10687564001	Well 20-3 Background @ 1'	EPA 5030	938382	EPA 8015D	938399
10687564002	Well 20-3 Background @ 8'	EPA 5030	938382	EPA 8015D	938399
10687564001	Well 20-3 Background @ 1'	EPA 3050B	938237	EPA 6010D	938308
10687564002	Well 20-3 Background @ 8'	EPA 3050B	938237	EPA 6010D	938308
10687564001	Well 20-3 Background @ 1'	N/A	938730	WREP 125, S-7.10	938788
10687564002	Well 20-3 Background @ 8'	N/A	938730	WREP 125, S-7.10	938788
10687564001	Well 20-3 Background @ 1'	WREP 125 S-1.6	939256		
10687564002	Well 20-3 Background @ 8'	WREP 125 S-1.6	939256		
10687564001	Well 20-3 Background @ 1'	ASTM D2974	938253		
10687564002	Well 20-3 Background @ 8'	ASTM D2974	938253		
10687564001	Well 20-3 Background @ 1'	EPA 3546	938313	EPA 8270E by SIM	938514
10687564002	Well 20-3 Background @ 8'	EPA 3546	938313	EPA 8270E by SIM	938514
10687564001	Well 20-3 Background @ 1'	EPA 5035/5030B	938542	EPA 8260D	938747
10687564002	Well 20-3 Background @ 8'	EPA 5035/5030B	938542	EPA 8260D	938747
10687564001	Well 20-3 Background @ 1'	3060A	2258453	EPA 7196A	2258453
10687564002	Well 20-3 Background @ 8'	3060A	2258453	EPA 7196A	2258453
10687564001	Well 20-3 Background @ 1'	WREP 125 S-1.20	938882		
10687564002	Well 20-3 Background @ 8'	WREP 125 S-1.20	938882		
10687564001	Well 20-3 Background @ 1'	WREP 125 S-1.10	938885		
10687564002	Well 20-3 Background @ 8'	WREP 125 S-1.10	938885		

REPORT OF LABORATORY ANALYSIS

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ENV-FRM-MIN4-0150 v15 Sample Condition Upon Receipt

CLIENT NAME: Wellington Operating Company

PROJECT #:

WO#: **10687564**

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ SpeedDee ☐ UPS ☐ USPS

PM: Y01 Due Date: 04/10/24
 CLIENT: Wellington

TRACKING NUMBER: 7048 1456 5200 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Coole/Box Present: ☒ YES ☐ NO Seals Intact: ☒ YES ☐ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A
 Packing Material: ☒ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet
 Thermometer: ☐ T1 (0461) ☒ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ Melted ☐ None
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☐ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A
 Correction Factor: +0.4 Cooler Temp Read w/Temp Blank: _____ °C Average Corrected Temp (no Temp Blank Only): +4.4 °C
 Cooler Temp Corrected w/Temp Blank: _____ °C
 NOTE: Temp should be above freezing to 6°C. ☒ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☐ N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: DGS 3/27/24
 Did Samples originate from one of the following states (check maps) AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>		11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <thead> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
Headspace in Methyl Mercury Container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
Trip Blanks Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☒ NO

Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Flora Pardo

Date: 03/27/2024

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: DGS

Line: 2

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.5	3.9	4.4
4.6	5.0	
4.0	4.4	
1.7	2.1	

PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



Tracking Number	Temperature



Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	

Comments: _____

B176



State Of Origin: CO
 Cert. Needed: ☒ Yes

Workorder Name: Gault-Piatt Well 20-3 Table 91

Owner Received Date: 3/27/2024 Results Requested By: 4/10/2024



Report To		Subcontract To										Requested Analysis											
Yeng Ozawa Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-1700		Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858										<div>Hex Chrome VI - Pace National</div> <div> <div>U720112</div> <div>LAB USE ONLY</div> <div>-01</div> <div>-02</div> </div>											
<div>JGFU</div> <div>Preserved Containers</div>																							
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved																	
1	Well 20-3 Background @ 1'	PS	3/25/2024 11:45	10687564001	Solid	1																	
2	Well 20-3 Background @ 8'	PS	3/25/2024 12:00	10687564002	Solid	1																	
3																							
4																							
5																							
												Comments											
Transfers		Released By		Date/Time		Received By		Date/Time															
1		B. Cee. / PACE		3/26/24 15:00		C. Brown		03-29-24															
2																							
3																							
Cooler Temperature on Receipt		°C		Custody Seal		Y or N		Received on Ice		Y or N		Samples Intact										Y or N	

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

6474 5643 0843

Sample Receipt Checklist

COG Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	If Applicable	
COG Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	VOR Zero Headspace:	<input type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Pres. Correct/Check:	<input type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
RA Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

0.1 + 0.1 = 0.2 TLA-7